Government
Publications

Canada. Dept. of Forestry.
Forest Products Research
Branch
List of publications
1960

REVISED

JULY 1960

LIST OF PUBLICATIONS

OF THE

FOREST PRODUCTS LABORATORIES OF CANADA

OTTAWA AND VANCOUVER

Forestry Branch
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
Canada

[Ottawa, Queen's Printer]
1960

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FOREWORD

The Forest Products Laboratories of Canada - a Division of the Forestry Branch - Department of Northern Affairs and National Resources, Canada - includes two laboratories, one at Ottawa, Ontario, the other at Vancouver, British Columbia.

Research at both laboratories follows generally similar lines and is concerned with the determination of the mechanical, physical, and chemical properties of Canadian commercial timber species. Research and investigations extend to the fields of conversion and utilization. All research work is planned to obtain data and information essential to an informed utilization of wood.

For the more than forty years during which forest products research has been carried on by FPLC, and extensive and comprehensive record of data and information have been accumulated. As important and informative data have become available, they have served as the basis for various types of reports.

In this manner the end results of research have been widely circulated so that they could serve as basic information for the planning of industrial improvements and developments. This is a continuing policy of the FPLC and new publications are prepared and released whenever warranted.

The following pages list all publications carried in stock at date of printing.

TO OBTAIN PUBLICATIONS

Requests for publications (other than "Canadian Woods") should be addressed to:

Forest Products Laboratory,
Department of Northern Affairs and
National Resources,
Ottawa, Ontario.

or

Forest Products Laboratory,
6620 N.W. Marine Drive,
Vancouver 8, B.C.

The only publication in this list for which there is a charge is "Canadian Woods"

English Printing 2nd Edition (enlarged)	$3.00
French Printing 1st Edition	$1.00

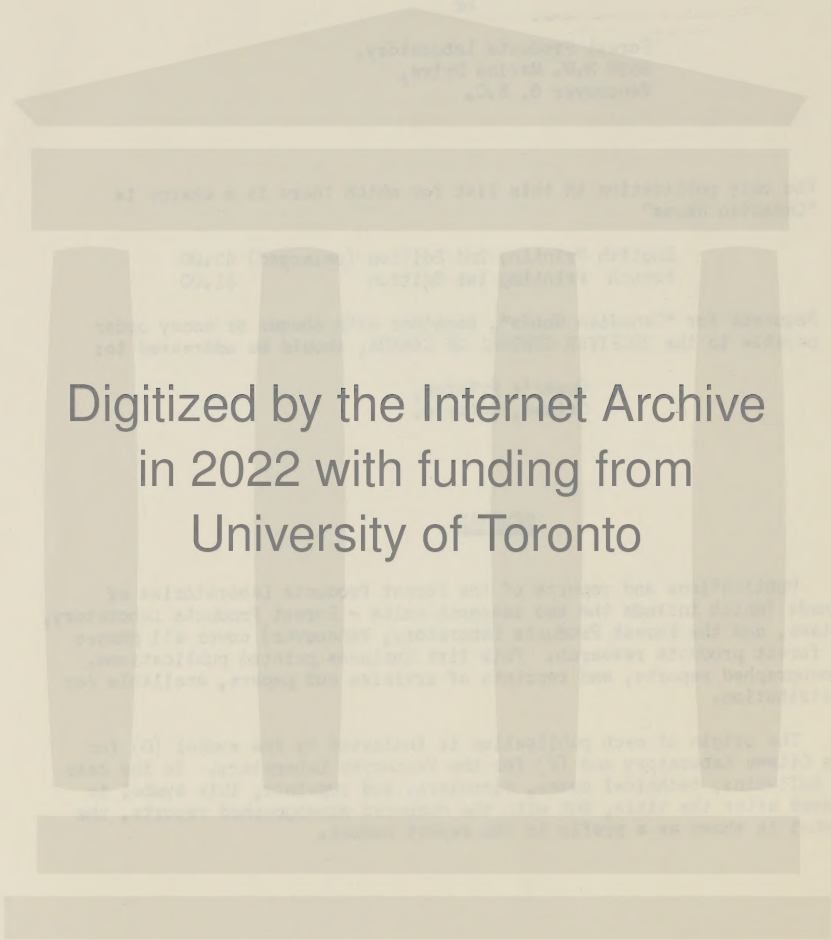
Requests for "Canadian Woods", together with cheque or money order payable to the RECEIVER GENERAL OF CANADA, should be addressed to:

Queen's Printer,
Ottawa, Ontario.

GENERAL

Publications and reports of the Forest Products Laboratories of Canada (which include the two research units - Forest Products Laboratory, Ottawa, and the Forest Products Laboratory, Vancouver) cover all phases of forest products research. This list includes printed publications, mimeographed reports, and reprints of articles and papers, available for distribution.

The origin of each publication is indicated by the symbol (O) for the Ottawa Laboratory and (V) for the Vancouver Laboratory. In the case of bulletins, technical notes, circulars, and reprints, this symbol is placed after the title, but with the numbered mimeographed reports, the symbol is shown as a prefix to the report number.



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The following are general subject headings only. Please refer to the indicated page for a listing of individual publications available under each general heading.

PART A - ENGLISH PUBLICATIONS

PART B - FRENCH PUBLICATIONS

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PART A - ENGLISH PUBLICATIONS

* - An asterisk denotes a publication which is cross referenced under more than one subject heading.

ANATOMY

* Bulletin 94 Density and Rate of Growth in the Spruces and Balsam Fir of Eastern Canada, J.D. Hale and J.B. Prince, 1940 - (O).

* " 100 Effects of Chemical Treatment of Pulpwood Trees, D.C. McIntosh, 1951 - (O).

* Circular 30 Rate of Growth and Density of the Wood of White Spruce, J.D. Hale and K.G. Fensom, 1931 - (O).

* Tech. Note 13 The Effect of Compression Wood on the Mechanical Properties of White Spruce and Red Pine, E. Perem - (O).

Structure of Wood, J.D. Hale. (Chapter 3 of book "Canadian Woods: Their Properties and Uses", 1951) - (O).

* O-158 - Studies of the Floating Properties of Pulpwood Logs, D.C. McIntosh, 1951.

* Determination of the Fibre-Saturation Point of Wood by Centrifuging, E. Perem. (Reprinted from Journal of the Forest Products Research Society, April 1954) - (O).

* Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, Oct. 1955) - (O).

* Thickness and Density of Bark. Trends of Variation for Six Pulpwood Species, J.D. Hale. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1955) - (O).

* The Anatomical Basis of Dimensional Changes of Wood in Response to Changes in Moisture Content, J.D. Hale. (Reprinted from Forest Products Journal, April 1957) - (O).

* Transverse Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, March, 1957) - (O)

* Review of Literature on Bark Adhesion and Methods of Facilitating Bark Removal, E. Perem. (Reprinted from Pulp and Paper Magazine of Canada, Sept. 1958) - (O).

* Physical and Anatomical Characteristics of Hardwoods, J.D. Hale. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1958) - (O).

* The Effect of Compression Wood on the Mechanical Properties of White Spruce and Red Pine, E. Perem. (Reprinted from the Forest Products Journal, Aug. 1958) - (O).

(ANATOMY - continued)

Spiral Grain in Red Alder, R.W. Kennedy and G.K. Elliott. (Reprinted from the Forest Chronicle, Sept. 1957) - (V).

Is Spiral Grain the Normal Growth Pattern? P.L. Northcott. (Reprinted from B.C. Lumberman, April 1958) - (V).

CHEMISTRY

Circular 62 Chemical Composition of Western Red Cedar Bark, G. Eastwood, K. Cram, F.W. King and H. Schwartz, 1947 - (O).

Chemical Utilization of Wood, C. Greaves and H. Schwartz. (Chapter 8 of the book "Canadian Woods: Their Properties and Uses", 1951) - (O).

O-88 - Cedar Leaf Oils. A Review of the Available Information, C. Greaves. (Revised 1949).

O-101 - Literature Review of the Utilization of Lignin in Plastics, H. Schwartz, 1944. (Reissued 1951).

O-114 - Improved Wood - Brief Review of Various Developments, 1946.

O-123 - Canada Balsam - Its Preparation and Uses, F.G. Marriott. (Revised by F. Bender, 1951).

O-135 - Production of Pine Tar by the Destructive Distillation of Canadian Softwoods, H. Schwartz and C. Greaves, 1944.

O-153 - Review of Literature on Decay in Pulpwood, its Measurement, and its Effect on Wood Properties and Pulp Quality, D.W. Glennie and H. Schwartz, 1950. (Reissued 1955).

V-1009 - Tannin for the Leather Industry from Sea-Water Floated Western Hemlock Bark, H. MacLean and J.A.F. Gardner, 1950.

V-1010 - Tannin for the Oil Industry from Sea-Water Floated Western Hemlock Bark, H. MacLean and J.A.F. Gardner, 1950.

* Studies on the Chemical Composition of Bark and its Utilization for Structural Board, L.P. Clermont and H. Schwartz. (Paper presented at National Annual Meeting, Forest Products Research Society, 1948) - (O).

Canadian Wood Bark as a Source of Tannin, C. Greaves. (Reprinted from Canada Lumberman, May 1949) - (O).

* Chemical Utilization of Wood and Wood Waste, H. Schwartz. (Reprinted from Chemistry in Canada, Jan. 1950) - (O).

Chemical Composition of Canadian Woods, L.P. Clermont and H. Schwartz, Parts 1 and 2. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1951 and May 1952) - (O).

(CHEMISTRY - continued)

Delignification of Spruce Sawdust with Chlorine Dioxide, N. Levitin and H. Schwartz. (Paper delivered at 7th Annual National Meeting, F.P.R.S., Memphis, Tenn., 1953) - (O).

* Strength Properties of Chlorine Dioxide Pulps from Sawdust, N. Levitin and H. Schwartz. (Reprinted from Pulp and Paper Magazine of Canada, July 1954) - (O).

Fractionation and Identification of the Hemicellulose Components of Black Spruce, L.P. Clermont. (Reprinted from Pulp and Paper Magazine of Canada, October 1955) - (O).

Microbiological Utilization of Cellulose and Wood. I. Laboratory Fermentations of Cellulose by Rumen Organisms, D.W. Stranks. (Reprinted from Canadian Journal of Microbiology, Feb. 1956) - (O).

The Effect of Swelling Agents and Catalysts on Acetylation of Wood, L.P. Clermont and F. Bender. (Reprinted from Forest Products Journal, May 1957) - (O).

* The Chemical Composition and Pulping Characteristics of Normal and Tension Wood of Aspen Poplar and White Elm, L.P. Clermont and F. Bender. (Reprinted from the Pulp and Paper Magazine of Canada, July 1958) - (O).

* Bark Utilization, A Continuing Problem, F. Bender. (Reprinted from Timber of Canada, June 1959) - (O).

Fermenting Wood Substrates with a Rumen Cellulolytic Bacterium, D.W. Stranks. (Reprinted from Forest Products Journal, July 1959) - (O).

* Deterioration of Wooden Dry Kilns Used for Drying Western Hemlock Lumber, H. MacLean and J.A.F. Gardner. (Reprinted from The Lumberman, Dec. 1951) - (V).

Economics of Tannin Production from Sea-Water Floated Hemlock Bark, D.S. Scott and J.A.F. Gardner. (Reprinted from B.C. Lumberman, April 1952) - (V).

* Bark Extracts in Adhesives, H. MacLean and J.A.F. Gardner. (Reprinted from Pulp and Paper Magazine of Canada, 1952) - (V).

Paper Chromatography of Phenolic Substances, G.M. Barton, R.S. Evans and J.A.F. Gardner. (Reprinted from "Nature", Aug. 1952) - (V)

Some Chemical and Plastic Properties of Western Red Cedar Butt Rot, H. MacLean and J.A.F. Gardner. (Reprinted from Forest Products Research Society, Nov. 1953) - (V).

* Heartwood Extractives in Digester Corrosion. H. MacLean and J.A.F. Gardner. (Reprinted from Pulp and Paper Magazine of Canada, Nov. 1953) - (V).

* Aluminum Sheet Linings for Wooden Kilns, H. MacLean and J.A.F. Gardner. (Reprinted from The Lumberman, Dec. 1953) - (V).

(CHEMISTRY - continued)

Analytical Method of Thujaplicins, H. MacLean and J.A.F. Gardner. (Reprinted from Analytical Chemistry, April 1956) - (V).

Distribution of Fungicidal Extractives (Thujaplicins and Water-Soluble Phenols) in Western Red Cedar Heartwood, H. MacLean and J.A.F. Gardner. (Reprinted from Forest Products Journal) - (V).

Occurrence of 2, 7-Dihydroxy-4-Isopropyl-2,4,6-Cycloheptatrien-1-one (7-Hydroxy-4-Isopropyltropolone) in Western Red Cedar (Thuja Plicata Donn.). J.A.F. Gardner, G.M. Barton, H. MacLean. (Reprinted from Canadian Journal of Chemistry, Sept. 1957) - (V).

Determination of Dihydroquercetin in Douglas Fir and Western Larch Wood, G.M. Barton and J.A.F. Gardner. (Reprinted from Analytical Chemistry, Feb. 1958) - (V).

Distribution of Fungicidal Extractives in Target Pattern Heartwood of Western Red Cedar, H. MacLean and J.A.F. Gardner. (Reprinted from Forest Products Research Society Journal, March 1958) - (V).

The Extraneous Components of Western Red Cedar, J.A.F. Gardner and G.M. Barton. (Reprinted from Forest Products Journal, June 1958) - (V).

The Polyoxyphenols of Western Red Cedar (Thuja Plicata Donn.). I. Isolation and Preliminary Characterization of Plicatic Acid. J.A.F. Gardner, G.M. Barton and H. MacLean. (Paper, Oct. 1959) - (V).

The Distribution of Dihydroquercetin in Douglas Fir and Western Larch. J.A.F. Gardner and G.M. Barton. (Reprinted from Forest Products Journal, March 1960) - (V).

CONTAINERS and PACKAGING

Circular 24 Strength of Reinforced and Unreinforced Butter and Cheese Boxes, G.H. Rochester, 1929 - (O).

" 39 The Design of Wooden Boxes, R.S. Millett, 1948 - (O).

Shipping Containers, W. Butterworth. (Chapter 12 of book "Canadian Woods: Their Properties and Uses", 1951) - (O).

O-106 - Effect of Slant Driving on the Holding Power of Nails, R.S. Millett, 1938.

Recent Developments in Containers, W. Butterworth. (Paper presented at the National Annual Meeting, Forest Products Research Society, 1950) - (O).

Export Packing (Prepared for the Canadian Commercial Corporation).

(CONTAINERS AND PACKAGING - continued)

Domestic and Overseas Shipping Need Efficient Protective Packs, W. Butterworth. (Reprinted from Canadian Packaging, June 1951) - (O).

A Scientific Approach to the Design of Wood Containers and the Design and Use of Pallets, J.M. Rudnicki. (Reprinted from Forest Products Journal, April 1955) - (O).

Effects of Moisture Content on Strength and Use of Nailed Wooden Boxes, C.H. Nethercote. (Reprinted from Lumber Dealer and Buyer, Sept. 1957) - (O).

Ottawa Laboratory Assists Industry with Packaging Research. C.H. Nethercote. (Reprinted from Packaging Progress, July 1959) - (O).

Performance Test for Poultry Containers, J.M. Rudnicki. (Reprinted from Packaging Progress, December 1959) - (O).

Particle Board as a Packaging Material, C.H. Nethercote. (Reprinted from Packaging Progress, March 1960) - (O).

FIBRE and PARTICLE BOARD

* Bulletin 120 Production of Wallboard from Wood Waste, F. Bender and F. King, 1956 - (O).

Tech. Note 6 Wood Residues as Pulp Material and Developments in Wallboard Production, J.A. Doyle and F. Bender - (O).

* Production of Insulating Fibreboard from Western Red Cedar Shingle Mill Waste, F.W. King and F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, Jan. 1951) - (O).

* Production of Hard-Pressed Fibreboards from Western Red Cedar Shingle Mill Waste, F.W. King and F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, May 1952) - (O).

* Spruce and Balsam Bark as a Source of Fibre Products, F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, Sept. 1959) - (O).

GENERAL PROPERTIES and USES

Book - CANADIAN WOODS: Their Properties and Uses, 1951. (400 pages 8½" x 11", available through the Queen's Printer, Ottawa, and commercial bookstores - Price $3.00).

Bulletin 98 Red Alder in British Columbia, K.W. Rymer, 1951 - (V).

* " 101 Sawdust as Fuel in Eastern Canada, 1951 - (O).

* " 114 Yellow Cedar: Its Characteristics, Properties and Uses, R.S. Perry, 1954 - (V).

(GENERAL PROPERTIES and USES - continued)

Circular 55 Wooden Tanks in Industry, M.J. Brophy, 1939 - (O).

Commercial Timbers of Canada, T.A. McElhanney - (Chapter 2 of book "Canadian Woods: Their Properties and Uses, 1951) - (O).

* O-89 - Heating Value of Wood Fuels, J.D. Hale, 1933. (Reissued, 1952).

V-1011 - Properties and Uses of Black Cottonwood, K.W. Rymer and F.W. Guernsey, 1951.

V-1026 - The Characteristics and Significance of Spruce, K.G. Fensom, Nov. 1959.

Canadian Export Timbers - Their Properties and Uses.

Wood Flour Production in Canada, E.H. Buckley. (Reprinted from Canada Lumberman, May 1952) - (O).

Use of Spiraled Grain Wood, P.L. Northcott. (Reprinted from British Columbia Lumberman, Feb. 1959) - (V).

GLUES and GLUING

Bulletin 96 Animal Glues and Their Use in Woodworking, G.L. Rosser, 1939 - (O).

* " 110 Dielectric Heating as Applied to the Woodworking Industries, R.W. Peterson, 1954 - (O).

Circular 50 Vegetable Glues for Plywood and Veneers, G.L. Rosser and W. Gallay, 1937 - (O).

* Tech. Note 4 The Dielectric Properties of Resin Glues for Wood, T.J.S. Cole and O.S. Roscoe - (O).

" " 8 Durability of Urea-Formaldehyde and Casein Adhesives at Elevated Temperatures, E.G. Bergin - (O).

" " 12 Effect of Wood Moisture Content on Glue, E.G. Bergin - (O).

* Veneers, Plywoods and Wood Adhesives, D.G. Miller - (Chapter 10 of the book "Canadian Woods: Their Properties and Uses", 1951) - (O).

Polyvinyl Resin Emulsion Woodworking Glues, E.G. Bergin. (Reprinted from Canadian Woodworker, July 1951) - (O).

* Radio-Frequency Power Requirements for Edge-Gluing, R.W. Peterson. (Reprinted from "Wood", Sept. 1951) - (O).

* Edge-Gluing by Dielectric Heating, R.W. Peterson. (Reprinted from Canadian Woodworker, Feb. 1952) - (O).

(GLUES and GLUING - continued)

Significance of Wood Failure in Glued Joints, E.G. Bergin. (Reprinted from Canadian Woodworker, March 1953) - (O).

Gluing Characteristics of Various Eastern Canadian Wood Species, E.G. Bergin. (Reprinted from Canadian Woodworker, Dec. 1953) - (O).

* Electrode Systems for Stray Field Heating, D.G. Miller. (Reprinted from Canadian Woodworker, Aug. 1958) - (O).

How to Select Adhesives, E.G. Bergin. (Reprinted from Canadian Woodworker, Dec. 1958) - (O).

Choice of Right Glue Vital for Laminated Structural Timbers, R.W. Peterson. (Reprinted from Canadian Woodworker, Sept. 1959) - (O).

* Bark Extracts in Adhesives, H. MacLean and J.A.F. Gardner. (Reprinted from Pulp and Paper Magazine of Canada, 1952) - (V).

How to Glue Pre-treated Laminating Stock, P.L. Northcott. (Reprinted from Canada Lumberman, Oct. 1957) - (V).

* The Effect of Dryer Temperatures Upon the Gluing Properties of Douglas Fir Veneers, P.L. Northcott. (Reprinted from Forest Products Journal) - (V).

GLULAM and other ENGINEERED WOOD PRODUCTS

Tech. Note 9 The Efficiency of Scarf Joints, A.P. Jessome - (O).

Glued Laminated Construction and Timber Fastenings, D.E. Kennedy and J.M. Rudnicki - (Chapters 11 and 13 of book "Canadian Woods: Their Properties and Uses", 1951) - (O).

O-152 - Construction and Testing of a Glued Laminated Wooden Arch of 47-foot Span, D.E. Kennedy, 1950.

V-1014 - Test Loading of a Composite Concrete Timber Deck Bridge, J.B. Alexander, 1953.

Panels for House Construction, W. Thornber, 1948 - (O).

The Efficiency of Scarf Joints, A.P. Jessome. (Reprinted from Canadian Woodworker, June 1956) - (O).

PAINTS and PROTECTIVE COATINGS

O-150 - General Information on Wood Paints and Coatings, R.C. Hubbard, 1949.

A Method for Determining the Relative Fire-Retardant Values of Surface Coatings, R.C. Hubbard - Mimeo.

O-181 - A Simple Natural Finish for Exterior Siding, J.M. Harrington and F.W. King, Sept. 1959.

(PAINTS and PROTECTIVE COATINGS - continued)

Blistering of Paints on Wood, J.J.G. Veer. (Reprinted from Lumber Dealer and Buyer, Aug. 1957) - (O).

Moisture Blistering of Paints on Wood, J.J.G. Veer. (Reprinted from Forest Products Journal, Oct. 1957) - (O).

PATHOLOGY - DECAY and STAINS

* Bulletin 113 Streaky Red Heart in Douglas Fir, H.W. Eades and J.B. Alexander, 1954 - (V).

" 116 Sap Stain and Mould Prevention on British Columbia Softwoods, H.W. Eades, 1956 - (V).

* Circular 34 Strength and Spike-Retention Properties of Jack Pine Ties Affected with Red Stain and Red Rot, G.H. Rochester, 1932 - (O).

* " 41 Western Red Cedar: Significance of its Heartwood Colorations, H.W. Eades and J.B. Alexander, 1934 - (V).

" 58 Decay in Red-Stained Jack Pine Ties Under Service Conditions, C.W. Fritz and E.A. Atwell, 1941 - (O).

" 61 Cause and Prevention of Decay in Wooden Buildings with Particular Reference to the Coastal Region of British Columbia, H.W. Eades, 1945 - (V).

* " 63 Red Stain and Pocket Rot in Jack Pine - Their Effect on Strength and Serviceability of the Wood, 1948 - (O).

* " 65 Strength of Jack Pine Poles Infected with Pocket Rot, D.E. Kennedy and W.E. Wakefield, 1948 - (O).

Tech. Note 1 Decay and Discolorations in Poplar Pulpwood, E.A. Atwell - (O).

" " 11 Deterioration of Logging Residue on the British Columbia Coast, J.W. Roff and H.W. Eades.

Decay and Stains in Wood, C.W. Fritz. (Chapter 6 of book "Canadian Woods: Their Properties and Uses", 1951) - (O).

* O-111 - Strength and Spike Holding Quality of Jack Pine Ties Containing Red Rot, D.E. Kennedy, 1947.

V-1007 - Sap Stain and Mould Prevention - The Relative Efficacy of Certain Chemicals, H.W. Eades and J.W. Roff, 1950.

V-1019 - Wooden Scows - Some Factors Affecting Their Durability, H.W. Eades. (Revised, 1956).

V-1023 - Red Heart Stain of Lodgepole Pine Logs in the Northern Interior of British Columbia, H. W. Eades and J.W. Roff, 1957.

(PATHOLOGY - DECAY and STAINS - continued)

V-1025 - Red Heart Stain of Lodgepole Pine Logs in the Southern Interior of British Columbia, H.W. Eades and J.W. Roff, Sept. 1959.

Deterioration of Logging Residue on the B.C. Coast, J.W. Roff. (Reprinted from B.C. Lumberman, June 1953) - (V).

Regulation of Aeration in Wood Soil Contact Culture Technique, H.W. Eades and J.W. Roff. (Reprinted from Journal of Forest Products Research Society, Sept. 1953) - (V).

Toxicity Tests of a Water-Soluble Phenolic Fraction (Thujaplicin-Free) of Western Red Cedar, J.W. Roff and J.M. Atkinson. (Reprinted from Canadian Journal of Botany, Jan. 1954) - (V).

Loss in Stiffness Evaluates Decay Resistance of Wood Treated with Copper Naphthenate, J.W. Roff and H. Shen. (Reprinted from Forest Products Journal, Aug. 1959) - (V).

Toxicity Tests of a New Tropolone, B-Thujaplicinol (7-Hydroxy-4-Isopropyltropolone) Occurring in Western Red Cedar. J.W. Roff and E.I. Whittaker. (Reprinted from Canadian Journal of Botany Vol. 37, 1959) - (V).

* Relative Decay Resistance of Western Hemlock and Douglas Fir Plywood and the Effect of Weathering, H.W. Eades and J.W. Roff. (Reprinted from Timber of Canada, Feb. 1960) - (V).

PHYSICS

* Bulletin 94 Density and Rate of Growth in the Spruces and Balsam Fir of Eastern Canada, J.D. Hale and J.B. Prince, 1940 - (O).

* " 110 Dielectric Heating as Applied to the Woodworking Industries, R.W. Peterson, 1954 - (O).

* Circular 30 Rate of Growth and Density of the Wood of White Spruce, J.D. Hale and K.G. Fensom, 1931 - (O).

* Tech. Note 4 The Dielectric Properties of Resin Glues for Wood, T.J.S. Cole and O.S. Roscoe - (O).

" " 16 The Dielectric Properties of Wood, R.W. Peterson, 1960 - (O).

* O-89 - Heating Value of Wood Fuels, J.D. Hale, 1933. (Reissued, 1952).

* Radio-Frequency Power Requirements for Edge-Gluing, R.W. Peterson. (Reprinted from "Wood", Sept. 1951) - (O).

* Edge-Gluing by Dielectric Heating, R.W. Peterson. (Reprinted from Canadian Woodworker, Feb. 1952) - (O).

(PHYSICS - continued)

* Determination of the Fibre-Saturation Point of Wood by Centrifuging, E. Perem. (Reprinted from Journal of the Forest Products Research Society, April 1954) - (O).

* Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, Oct. 1955) - (O).

* Thickness and Density of Bark. Trends of Variation for Six Pulpwood Species, J.D. Hale. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1955) - (O).

* Transverse Shrinkage of Red Oak and Beech, D.C. McIntosh. (Reprinted from Forest Products Journal, March, 1957) - (O).

* The Anatomical Basis of Dimensional Changes of Wood in Response to Changes in Moisture Content, J.D. Hale. (Reprinted from Forest Products Journal, April 1957) - (O).

* Electrode Systems for Stray Field Heating, D.G. Miller. (Reprinted from Canadian Woodworker, Aug. 1958) - (O).

* Physical and Anatomical Characteristics of Hardwood, J.D. Hale. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1958) - (O).

* Sonic Detection of Blisters - For Plywood and other Bonded Materials, D.G. Miller. (Reprinted from Forest Products Journal, Aug. 1959) - (O).

PRESERVATION

Bulletin 107 Preservative Treatment of Fence Posts by Non-Pressure Processes, M.J. Colleary, 1953 - (O).

" 126 Protection of Wooden Structures in British Columbia Waters, G. Bramhall, 1960 - (V).

Circular 26 Creosote Treatment of Douglas Fir, J.F. Harkom, 1929 - (O).

" 29 Strength Tests of Creosoted Douglas Fir Railway Ties, J.F. Harkom and J.B. Alexander, 1931 - (O-V).

" 36 Leaching Tests on Water-Soluble Preservatives, C. Greaves, 1933 - (O).

Preservative Treatment of Wood, J.F. Harkom. (Chapter 7 of the book "Canadian Woods: Their Properties and Uses", 1951) - (O).

O-86 - Life of Creosoted Wooden Piling When Used for Building Foundations to Support Masonry Footings, J.F. Harkom. (Reissued 1959).

O-105-55 (General) - Durability Data on Treated and Untreated Timbers, J. Krzyzewski, 1955.

O-149 - Accelerated Testing of Wood Preservatives, including Wood Block Soil Technique, H.P. Sedziak, 1949.

(PRESERVATION - continued)

O-160 - Absorption and Penetration of Greensalt Solutions in Mountain Douglas Fir and Eastern Spruce, M.J. Colleary, 1951.

O-166 - Hot and Cold Bath Preservative Treatment of Jack Pine and Spruce Crossarms with Pentachlorophenol Solution, J. Krzyzewski. (Reissued 1954).

O-174 - Treatment of Fence Posts of Non-Durable Species with Modern Water-Borne Preservatives by the Butt Diffusion Method, J. Krzyzewski, May 1956.

O-175 - Penetration and Exudation of Oil in Sections of Pine Poles Treated with Creosote-Pentachlorophenol Mixtures, H.P. Sedziak, 1956.

O-180 - Durability Data on Treated and Untreated Railway Ties, K. Krzyzewski and H.P. Sedziak, 1960.

Preservative Treatment of Douglas Fir and Western Hemlock Sleepers in Canada, C. Greaves. (Paper presented at Annual Meeting, British Wood Preserving Association, 1951) - (O).

Some Physical Factors Influencing the Effectiveness of Preservatives, T.S. McKnight. (Reprinted from Forest Products Journal, Dec. 1957) - (O).

Application of the Logistic Function of Toxicity Testing of Wood Preservatives, T.S. McKnight. (Reprinted from Forest Products Journal, March 1958) - (O).

Increasing the Durability of Wood, H.P. Sedziak. (Reprinted from Canada Lumberman, August 1958) - (O).

Fungistatic Effectiveness and Leachability of Copper Abietate and Formate Preservatives, T.S. McKnight and E. Merrall. (Reprinted from Forest Products Journal, Sept. 1958) - (O).

Vapour Pressures in Western Hemlock Heartwood During Boiling-Under-Vacuum in Creosote, G. Bramhall and W.M. Conners. (Reprinted from Forest Products Journal, Aug. 1955) - (V).

* An Evaluation of Factors Affecting the Rate of Drying of Round Western Hemlock During the Boiling Under Vacuum Process, W.M. Conners and G. Bramhall. (Reprinted from Forest Products Journal, June 1957) - (V).

Factors Affecting the Amount of Naphthalene in Condensate During Boiling-Under-Vacuum in Creosote, G. Bramhall and W.M. Connors. (Reprinted from Forest Products Journal, July 1958) - (V).

RESEARCH and INDUSTRIAL DEVELOPMENTS

0-182 - Grade-Marking for Export to U.S.A., J.H. Jenkins, 1960.

Some Impressions of the Third World Forestry Congress and the Timber Industry of Finland and Sweden, J.H. Jenkins, 1949 - (O).

Development of Forest Products Research in Canada, J.H. Jenkins - Paper presented before Annual Meeting, Forest Products Institute of Canada, 1950) - (O).

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